

**AMENDMENT TO THE CLAIMS**

1. (Currently amended) A method of regenerating a biosensor of the type having a signal generating portion, wherein said biosensor is responsive to a property of or to the presence of a component in a biological fluid, and has a flow passage in which said signal generating portion is located and through which fluid is passed at selectable flow rates, the method comprising:

(a) passing a background flow of fluid through the flow passage without response generating components;

(b) introducing a sample aliquot into said background flow at a selected point in time; and

(c) increasing the flow rate of the background fluid at a point in time when at least a fraction of said sample aliquot has entered said flow passage in said sensor, such that the rate of increase of the flow rate of the background fluid occurs essentially simultaneously with the entry of the sample aliquot in the flow passage.

2. (Previously presented) The method of claim 1, comprising detecting the presence of the sample by the sensor and increasing the flow rate at a point in time 0-30 seconds after the presence of sample is detected, preferably 0-20 seconds, more preferably 0-10 seconds, and most preferably immediately after such detection.

3. (Previously presented) The method of claim 1, wherein said flow rate is increased by 5-100%, preferably 10-50%, most preferably 15-30%.

4. (Previously presented) The method of claim 1, comprising maintaining the increased flow rate until the signal from the sensor has reached a preselected value.

5. (Previously presented) The method of claim 4, wherein said preselected value is a signal peak maximum.
6. (Previously presented) The method of claim 1, wherein the increased flow rate is maintained for 10-60 seconds, preferably 20-40 seconds.
7. (Previously presented) The method of claim 1, wherein said background flow is 0.1 - 10 ml/min., preferably 1 ml/min.
8. (Previously presented) The method of claim 1, wherein said increase in flow rate is initiated when the entire sample has entered said flow passage.
9. (Previously presented) The method of claim 1, wherein sample is continuously drawn from a sample source, and when not being analyzed it is disposed as waste.
10. (Previously presented) The method of claim 1, wherein the sample is blood, optionally premixed with anticoagulant.
11. (Previously presented) The method of claim 10 wherein said anticoagulant is premixed with blood in a ratio of 1:1.
- 12-18. (Canceled)